

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

FEBRUARY 1970

PART II—Fishing Information*

Sea-surface temperatures, fishing and research information
of interest to the West Coast tuna-fishing industry
and marine scientists

CONTENTS

	Page
Sea Surface Temperature Charts, Eastern Pacific Ocean, February 1970	1

U. S. Department of the Interior
Bureau of Commercial Fisheries
Fishery-Oceanography Center
P. O. Box 271
La Jolla, California 92037

*Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, U. S. Custom House, Terminal Island, California

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
FEBRUARY 1970

Acknowledgments

The following organizations and stations contributed data for the February 1970 charts:

U.S. Bureau of Commercial Fisheries Biological Laboratories La Jolla,
California, Honolulu, Hawaii, and Seattle, Washington

U.S. Naval Weather Service, Fleet Numerical Weather Central, Monterey,
California

Environmental Science Services Administration

U.S. Weather Bureau, San Diego, California

U.S. Coast and Geodetic Survey, Pacific Marine Center, Seattle,
Washington

General Dynamics Convair Division; Ocean Data Buoy BRAVO

Hopkins Marine Station, Pacific Grove, California, J. P. Balesteri

Inter-American Tropical Tuna Commission, La Jolla, California

Inter-American Geodetic Survey by L. Peren at Puerto Armuelles,
Panama; D. Chaves at Talara, Peru; G. Castillo at San Juan,
Peru.

Kelco Company, San Diego, California

LMR Inc., San Diego, California

Pacific Missile Range, Range Operations Department, Geophysics Division
Point Mugu, California

Scripps Institution of Oceanography, La Jolla, California, by Margaret
Robinson

Scripps Institution of Oceanography Research Vessels ALEXANDER
AGASSIZ, THOMAS WASHINGTON, ARGO, ELLEN B. SCRIPPS,
ALPHA HELIX

Fishing Vessel MARTINAC

Charts

Figure 1. --Mean sea surface temperature ($^{\circ}$ F) derived from approximately 8000 observations. Squares show temperatures at weather ship stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2. --Deviation of sea surface temperatures ($^{\circ}$ F) from long term charts of H. O. 225. Hatched areas are colder in 1970.

Figure 3. --Deviation of sea surface temperatures ($^{\circ}$ F) from those of February 1970. Hatched areas are colder in 1970.

Figure 4. --Sea surface temperatures ($^{\circ}$ F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

Figure 5. --Deviation of sea surface temperatures ($^{\circ}$ F) February 1970-February 1969 by 1-degree squares. Shaded areas are colder in 1970.

Figure 6. --Deviation of sea surface temperatures ($^{\circ}$ F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1970.

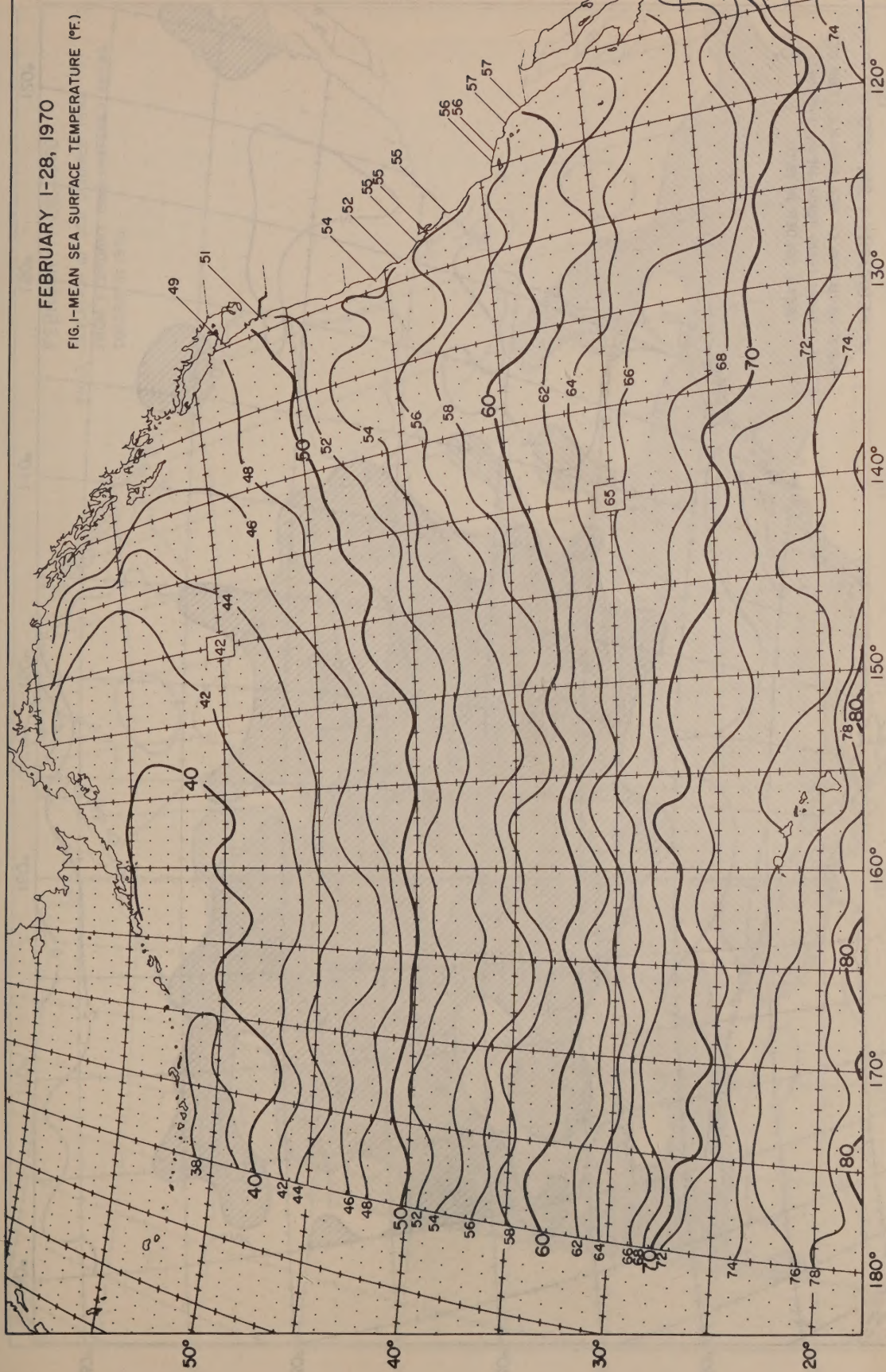
Figure 7. --Ten-year mean (1961-1970) observed sea level values of barometric pressure (millibars), resultant wind direction (degrees true), resultant wind speed (knots), and average wind speed (knots) regardless of direction.

Figure 8. --Observed sea level values of barometric pressure (millibars), resultant wind direction (degrees true), resultant wind speed (knots), and average wind speed (knots) regardless of direction derived from approximately 5000 observations.

James A. Renner, Fishery Biologist
Kenneth S. Raymond, Scientific Illustrator
March 6, 1970

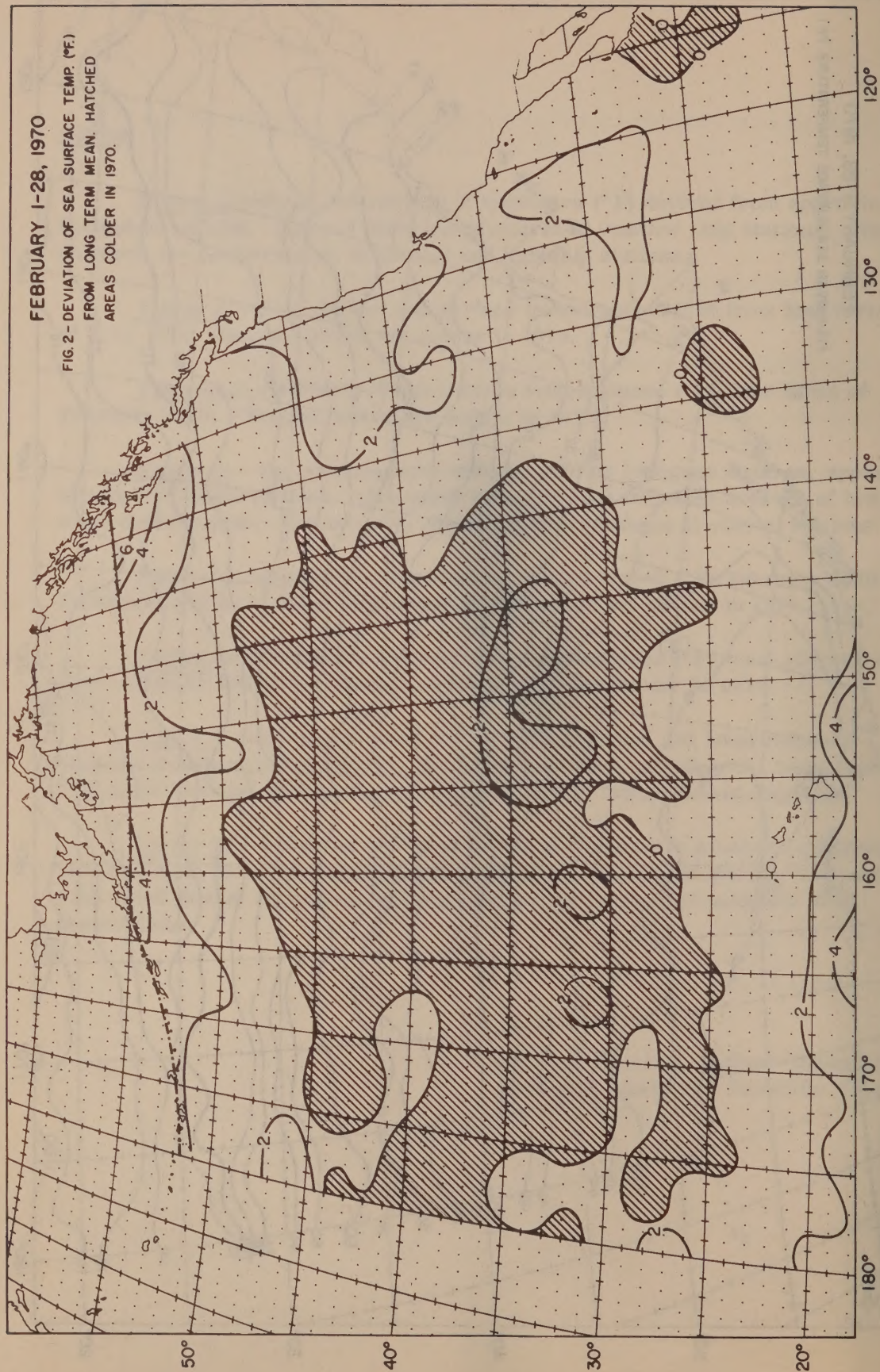
FEBRUARY 1-28, 1970

FIG. 1-MEAN SEA SURFACE TEMPERATURE (°F.)



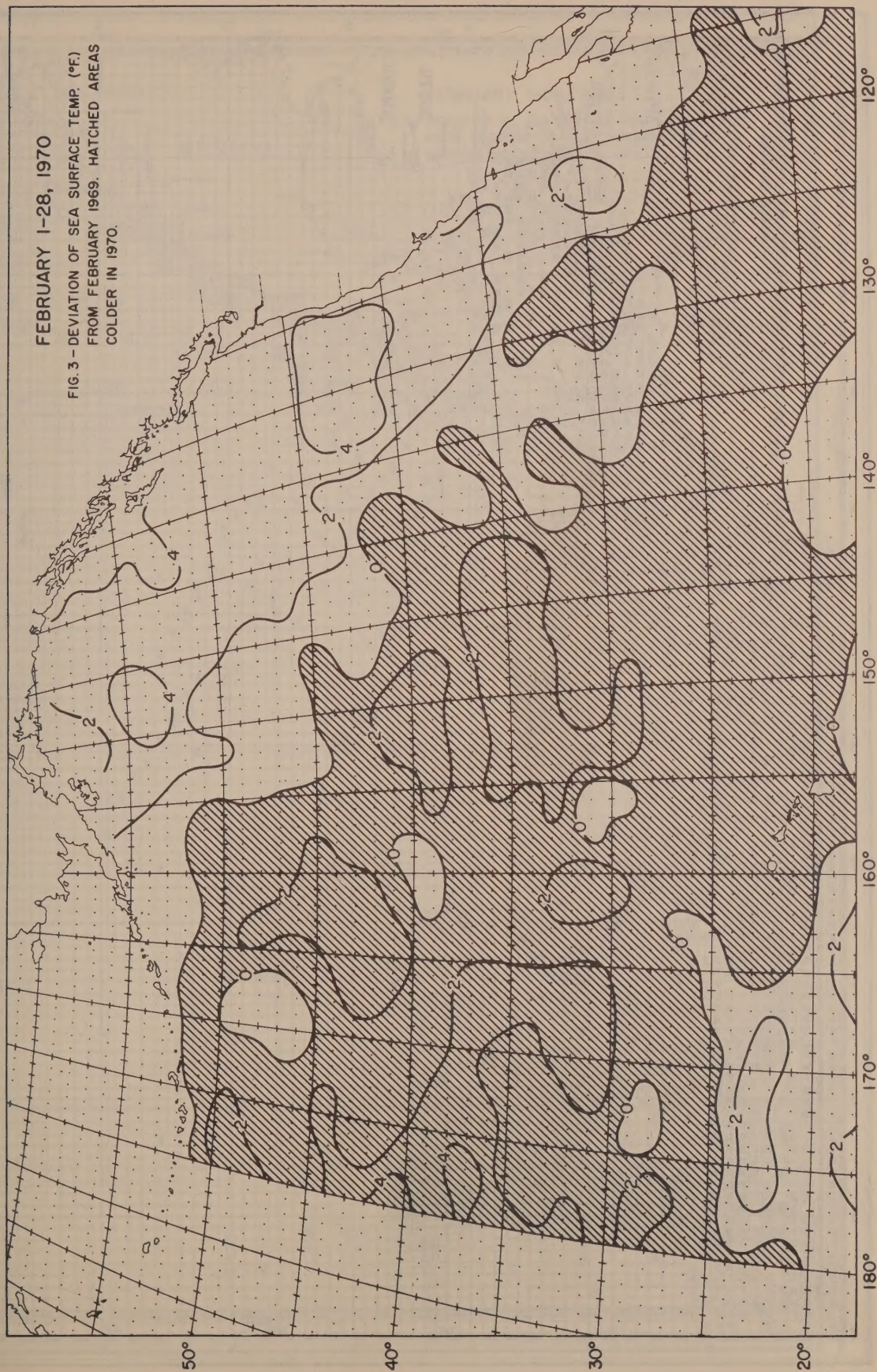
FEBRUARY 1-28, 1970

FIG. 2- DEVIATION OF SEA SURFACE TEMP. (°F.)
FROM LONG TERM MEAN. HATCHED
AREAS COLDER IN 1970.



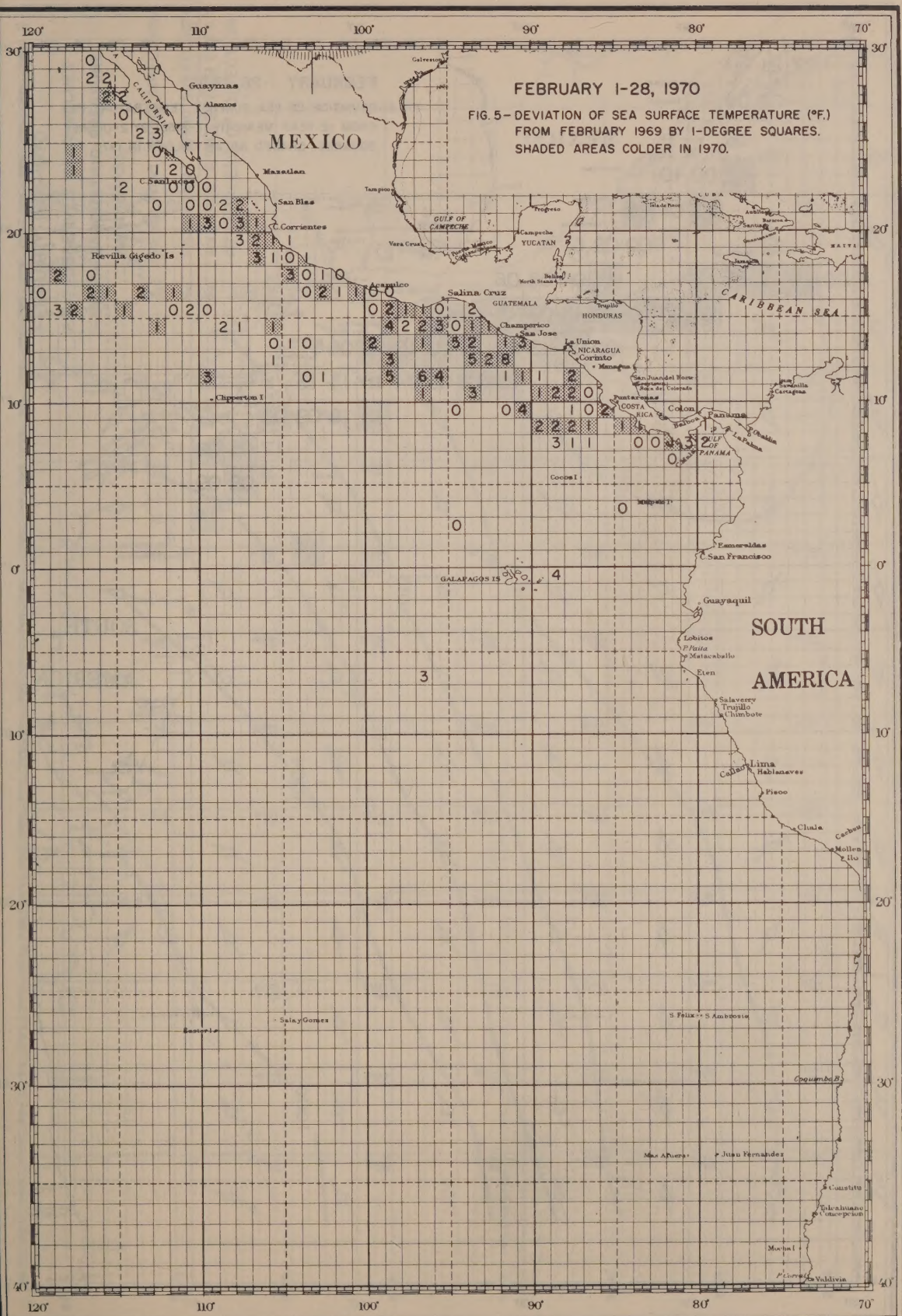
FEBRUARY 1-28, 1970

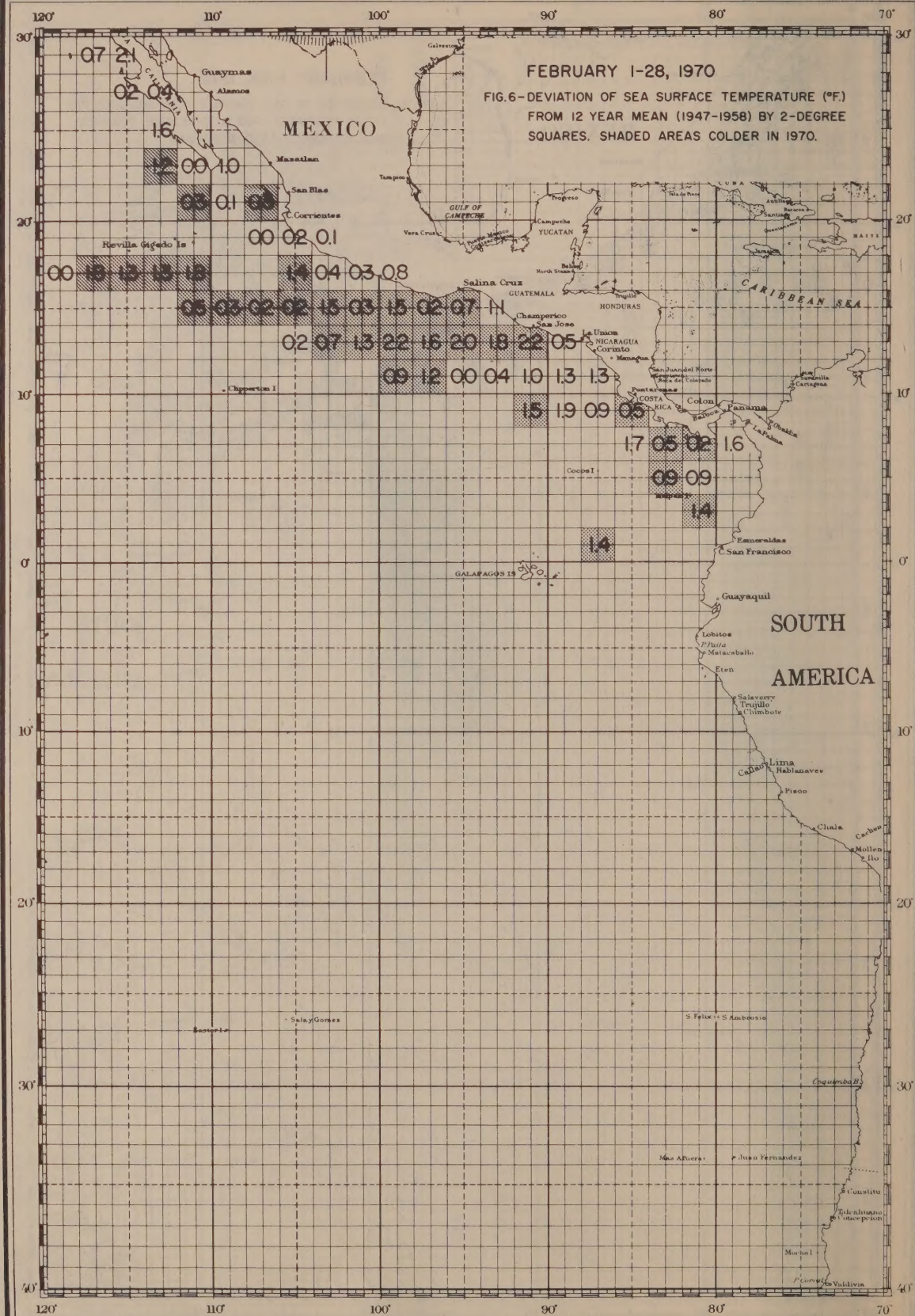
FIG. 3 - DEVIATION OF SEA SURFACE TEMP. (°F.)
FROM FEBRUARY 1969. HATCHED AREAS
COLDER IN 1970.



FEBRUARY 1-28, 1970
FIG. 4-SEA SURFACE TEMPERATURES (°F.)
BY 1-DEGREE SQUARES.







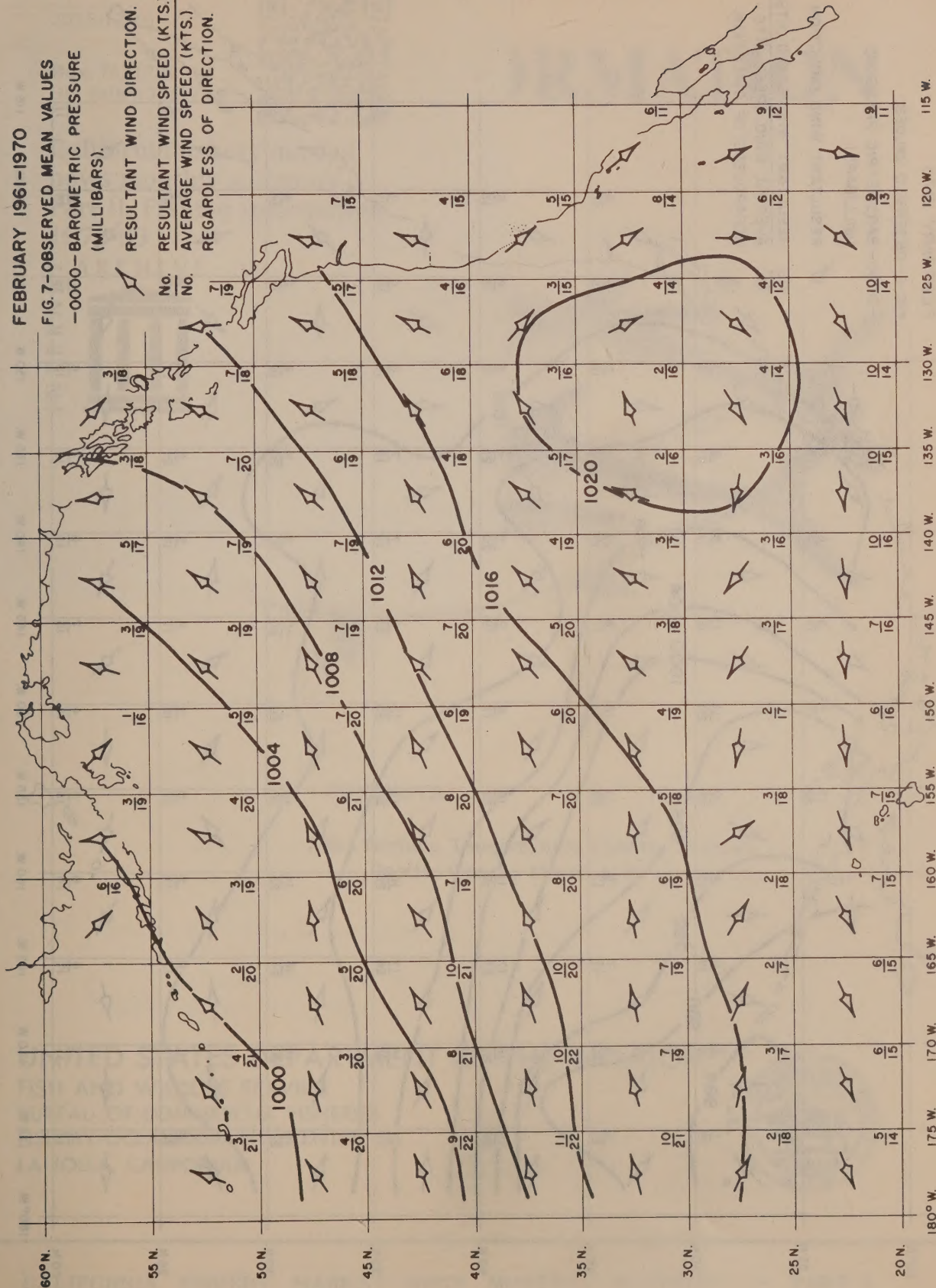
FEBRUARY 1961-1970

FIG. 7-OBSERVED MEAN VALUES

-0000-BAROMETRIC PRESSURE
(MILLIBARS).

RESULTANT WIND DIRECTION.

RESULTANT WIND SPEED (KTS.).
AVERAGE WIND SPEED (KTS.)
REGARDLESS OF DIRECTION.



FEBRUARY 1970

FIG. 8—OBSERVED VALUES

—0000—BAROMETRIC PRESSURE
(MILLIBARS).

RESULTANT WIND DIRECTION.

RESULTANT WIND SPEED (KTS.).

AVERAGE WIND SPEED (KTS.)

REGARDLESS OF DIRECTION.

